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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Bednarik et al.

Attorney Docket No.: PF138P1C1

Application Serial No.: Unassigned

Art Unit: Unassigned

Filed: Herewith

Examiner: Unassigned

Title: Human Hypoxanthine-(Guanine) Phosphoribosyl Transferase-2

STATEMENT UNDER 37 C.F.R. § 1.821

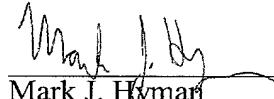
Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.821(f), Applicants hereby certify that the sequence listing information recorded in computer readable form and submitted herewith is identical to the written (on paper) Sequence Listing submitted herewith.

Respectfully submitted,

Dated: July 12, 2001


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SEQUENCE LISTING

<110> Bednarik et al.

<120> Human Hypoxanthine- (Guanine) Phosphoribosyl Transferase-2

<130> PF138P1C1

<150> US 08/461,031

<151> 1995-06-05

<150> PCT/US94/11914

<151> 1994-10-19

<160> 11

<170> PatentIn version 3.1

<210> 1

<211> 1386

<212> DNA

<213> Homo sapiens

<220>

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<222> (626) .. (1264)

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cctgcgttaa tccccctgat tccttgtggg ataaccgta ttccccccct tagagtgaat 180

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tacagctgcc acgacaggtt tcccgactgg aaagcggtca gtgagcgcaa cacaattaat 360

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ttgtgtggaa ttgtgagcggtt ataacaattt cacacaggaa acagctatga ccatgattac 480

gtccaaagctc gaaattaacc ctcactaaag ggaacaaaaa ctggagctcc accgcgggtgg 540

cggccgctct agaactagtg gatccccgg gctccaggaa ttccgcacga ccgggaggac 600

cgaggaggcg ccagactacg ggcga atg gcg acc cgc agc cct ggc gtc gtg 652

Met Ala Thr Arg Ser Pro Gly Val Val

1 5

att atg gat gat tgg cca ggg tat gac ttg aat tta ttc acg tac cca 700

Ile Met Asp Asp Trp Pro Gly Tyr Asp Leu Asn Leu Phe Thr Tyr Pro

10 15 20 25

cag cac tat tat gga gac ttg gag tat gtc ctc atc cct cat ggt atc Gln His Tyr Tyr Gly Asp Leu Glu Tyr Val Leu Ile Pro His Gly Ile 30 35 40	748
att gtg gac aga att gag cggtg gcc aag gat att atg aaa gac ata Ile Val Asp Arg Ile Glu Arg Leu Ala Lys Asp Ile Met Lys Asp Ile 45 50 55	796
gga tat agt gac atc atg gtc ctgtgtg ctt aaa ggg ggg tac aaa Gly Tyr Ser Asp Ile Met Val Leu Cys Val Leu Lys Gly Gly Tyr Lys 60 65 70	844
ttc tgt gct gat ctc gta gaa cac ctt aag aac atc agc cga aat tca Phe Cys Ala Asp Leu Val Glu His Leu Lys Asn Ile Ser Arg Asn Ser 75 80 85	892
gat cggtttgtc tca atg aag gtt gat ttc atc aga cta aaa agt tac Asp Arg Phe Val Ser Met Lys Val Asp Phe Ile Arg Leu Lys Ser Tyr 90 95 100 105	940
agg aat gac cag tcc atg ggt gag atg cag ata atc gga ggc ggt gat Arg Asn Asp Gln Ser Met Gly Glu Met Gln Ile Ile Gly Gly Gly Asp 110 115 120	988
ctt tca acg ctg gct gga aag aat ttt ctc att gtt gag gat gtt gtc Leu Ser Thr Leu Ala Gly Lys Asn Phe Leu Ile Val Glu Asp Val Val 125 130 135	1036
gga act ggg agg acc atg aaa gca cta ctc agc aat ata gag aaa tac Gly Thr Gly Arg Thr Met Lys Ala Leu Leu Ser Asn Ile Glu Lys Tyr 140 145 150	1084
aag ccc aac atg att aag gta gcc agt ttgttggtg aag aga aca tcc Lys Pro Asn Met Ile Lys Val Ala Ser Leu Leu Val Lys Arg Thr Ser 155 160 165	1132
aga agt gac ggc ttt aga cct gac tat gct gga ttt gag att cca cac Arg Ser Asp Gly Phe Arg Pro Asp Tyr Ala Gly Phe Glu Ile Pro His 170 175 180 185	1180
tta ttt gtg gtg gga tat gcc tta gat tac aat gaa tac ttc aga gat Leu Phe Val Val Gly Tyr Ala Leu Asp Tyr Asn Glu Tyr Phe Arg Asp 190 195 200	1228
ctg aat cac ata tgc gtc atc aat gag cac ggg taa aggaaaatat Leu Asn His Ile Cys Val Ile Asn Glu His Gly 205 210	1274
cgagtcttaa agacatgaat tctcaccact aaaggccccca gataggatca ttttacgcc	1334
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20 25 30

Glu Tyr Val Leu Ile Pro His Gly Ile Ile Val Asp Arg Ile Glu Arg
35 40 45

Leu Ala Lys Asp Ile Met Lys Asp Ile Gly Tyr Ser Asp Ile Met Val
50 55 60

Leu Cys Val Leu Lys Gly Gly Tyr Lys Phe Cys Ala Asp Leu Val Glu
65 70 75 80

His Leu Lys Asn Ile Ser Arg Asn Ser Asp Arg Phe Val Ser Met Lys
85 90 95

Val Asp Phe Ile Arg Leu Lys Ser Tyr Arg Asn Asp Gln Ser Met Gly
100 105 110

Glu Met Gln Ile Ile Gly Gly Asp Leu Ser Thr Leu Ala Gly Lys
115 120 125

Asn Phe Leu Ile Val Glu Asp Val Val Gly Thr Gly Arg Thr Met Lys
130 135 140

Ala Leu Leu Ser Asn Ile Glu Lys Tyr Lys Pro Asn Met Ile Lys Val
145 150 155 160

Ala Ser Leu Leu Val Lys Arg Thr Ser Arg Ser Asp Gly Phe Arg Pro
165 170 175

Asp Tyr Ala Gly Phe Glu Ile Pro His Leu Phe Val Val Gly Tyr Ala
180 185 190

Leu Asp Tyr Asn Glu Tyr Phe Arg Asp Leu Asn His Ile Cys Val Ile
195 200 205

Asn Glu His Gly
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<213> Artificial Sequence

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<223> Primer for PCR

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<212> PRT
<213> Homo sapiens

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20 25 30

Glu Arg Val Phe Ile Pro His Gly Leu Ile Met Asp Arg Thr Glu Arg
35 40 45

Leu Ala Arg Asp Val Met Lys Glu Met Gly Gly His His Ile Val Ala
50 55 60

Leu Cys Val Leu Lys Gly Gly Tyr Lys Phe Phe Ala Asp Leu Leu Asp
65 70 75 80

Tyr Ile Lys Ala Leu Asn Arg Asn Ser Asp Arg Ser Ile Pro Met Thr
85 90 95

Val Asp Phe Ile Arg Leu Lys Ser Tyr Cys Asn Asp Gln Ser Thr Gly
100 105 110

Asp Ile Lys Val Ile Gly Gly Asp Asp Leu Ser Thr Leu Thr Gly Lys
115 120 125

Asn Val Leu Ile Val Glu Asp Ile Ile Asp Thr Gly Lys Thr Met Gln
130 135 140

Thr Leu Leu Ser Leu Val Arg Gln Tyr Asn Pro Lys Met Val Lys Val
145 150 155 160

Ala Ser Leu Leu Val Lys Arg Thr Pro Arg Ser Val Gly Tyr Lys Pro
165 170 175

Asp Phe Val Gly Phe Glu Ile Pro Asp Lys Phe Val Val Gly Tyr Ala
180 185 190

Leu Asp Tyr Asn Glu Tyr Phe Arg Asp Leu Asn His Val Cys Val Ile
195 200 205

Ser Glu Thr Gly Lys Ala Lys Tyr Lys Ala
210 215

<210> 8
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<212> PRT
<213> Cricetulus longicaudatus

<400> 8

Met Ala Thr Arg Ser Pro Ser Val Val Ile Ser Asp Asp Glu Pro Gly
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Tyr Asp Leu Asp Leu Phe Cys Ile Pro Asn His Tyr Val Glu Asp Leu
20 25 30

Glu Lys Val Phe Ile Pro His Gly Val Ile Met Asp Arg Thr Glu Arg
35 40 45

Leu Ala Arg Asp Val Met Lys Glu Met Gly Gly His His Ile Val Ala
50 55 60

Leu Cys Val Leu Lys Gly Gly Tyr Lys Phe Phe Ala Asp Leu Leu Asp
65 70 75 80

Tyr Ile Lys Ala Leu Asn Arg Asn Ser Asp Arg Ser Ile Pro Met Thr
85 90 95

Val Asp Phe Ile Arg Leu Lys Ser Tyr Cys Asn Asp Gln Ser Thr Gly
100 105 110

Asp Ile Lys Val Ile Gly Gly Asp Asp Leu Ser Thr Leu Thr Gly Lys
115 120 125

Asn Val Leu Ile Val Glu Asp Ile Ile Asp Thr Gly Lys Thr Met Gln
130 135 140 145

Thr Leu Leu Ser Leu Val Lys Arg Tyr Asn Pro Lys Met Val Lys Val
145 150 155 160

Ala Ser Leu Leu Val Lys Arg Thr Ser Arg Ser Val Gly Tyr Arg Pro
165 170 175

Asp Phe Val Gly Phe Glu Ile Pro Asp Lys Phe Val Val Gly Tyr Ala
180 185 190

Leu Asp Tyr Asn Glu Tyr Phe Arg Asp Leu Asn His Ile Cys Val Ile
195 200 205

Ser Glu Thr Gly Lys Ala Lys Tyr Lys Ala
210 215

<210> 9
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<212> PRT
<213> Plasmodium falciparum
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Val Phe Val Lys Asp Asp Asp Gly Tyr Asp Leu Asp Ser Phe Met Ile
20 25 30

Pro Ala His Tyr Lys Lys Tyr Leu Thr Lys Val Leu Val Pro Asn Gly
35 40 45

Val Ile Lys Asn Arg Ile Glu Lys Leu Ala Tyr Asp Ile Lys Lys Val
50 55 60

Tyr Asn Asn Glu Glu Phe His Ile Leu Cys Leu Leu Lys Gly Ser Arg
65 70 75 80

Gly Phe Phe Thr Ala Leu Leu Lys His Leu Ser Arg Ile His Asn Tyr
85 90 95

Ser Ala Val Glu Met Ser Lys Pro Leu Phe Gly Glu His Tyr Val Arg
100 105 110

Val Lys Ser Tyr Cys Asn Asp Gln Ser Thr Gly Thr Leu Glu Ile Val
115 120 125

Ser Glu Asp Leu Ser Cys Leu Lys Gly Lys His Val Leu Ile Val Glu
130 135 140

Asp Ile Ile Asp Thr Gly Lys Thr Leu Val Lys Phe Cys Glu Tyr Leu
145 150 155 160

Lys Lys Phe Glu Ile Lys Thr Val Ala Ile Ala Cys Leu Phe Ile Lys
165 170 175

Arg Thr Pro Leu Trp Asn Gly Phe Lys Ala Asp Phe Val Gly Phe Ser
180 185 190

Ile Pro Asp His Phe Val Val Gly Tyr Ser Leu Asp Tyr Asn Glu Ile
195 200 205

Phe Arg Asp Leu Asp His Cys Cys Leu Val Asn Asp Glu Gly Lys Lys
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Lys Tyr Lys Ala Thr Ser Leu
225 230

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<213> Trypanosoma brucei

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20 25 30

Asp Asp Tyr Ser Asn Cys Asn Leu Lys Pro Leu Glu Asn Pro Leu Val
35 40 45

Ile Val Ser Val Leu Lys Gly Ser Phe Val Phe Thr Ala Asp Met Val
50 55 60

Arg Ile Leu Gly Asp Phe Gly Val Pro Thr Arg Val Glu Phe Leu Arg
65 70 75 80

Ala Ser Ser Tyr Gly His Asp Thr Lys Ser Cys Gly Arg Val Asp Val
85 90 95

Lys Ala Asp Gly Leu Cys Asp Ile Arg Gly Lys His Val Leu Val Leu
100 105 110

Glu Asp Ile Leu Asp Thr Ala Leu Thr Leu Arg Glu Val Val Asp Ser
115 120 125

Leu Lys Lys Ser Glu Pro Ala Ser Ile Lys Thr Leu Val Ala Ile Asp
130 135 140

Lys Pro Gly Gly Arg Lys Ile Pro Phe Thr Ala Glu Tyr Val Val Ala
145 150 155 160

Asp Val Pro Asn Val Phe Val Val Gly Tyr Gly Leu Asp Tyr Asp Gln
165 170 175

Ser Tyr Arg Glu Val Arg Asp Val Val Ile Leu Lys Pro Ser Val Tyr
180 185 190

Glu Thr Trp Gly Lys Glu Leu Glu Arg Arg Lys Ala Ala Gly Glu Ala
195 200 205

Lys Arg
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<210> 11
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<212> PRT
<213> Homo sapiens

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Arg Lys Ile Ser Ser
1 5